

bs-2540R**[Primary Antibody]****GLUT12 Rabbit pAb**

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— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 154091**SWISS:** Q8TD20**Target:** GLUT12**Immunogen:** KLH conjugated synthetic peptide derived from human GLUT12: 251-350/617. < Extracellular >**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

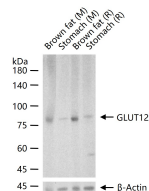
Background: GLUT12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion. Thirteen different types of glucose/fructose transport carrier proteins designated as Glut 1-13 facilitate glucose/fructose transport across the cell membrane. Individual members of the Glut family have predicted secondary structure characteristic of 12 membrane spanning domains of other transport carriers.

Applications: WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**ICC/IF** (1:100)

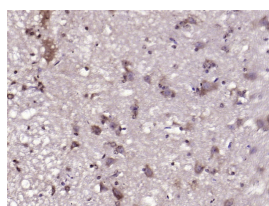
Reactivity: Human, Mouse, Rat
(predicted: Rabbit, Pig, Cow, Chicken, Dog, GuineaPig, Horse)

Predicted MW.: 68 kDa

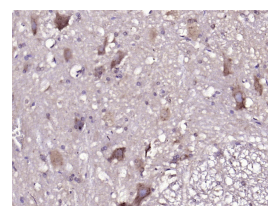
Subcellular Location: Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

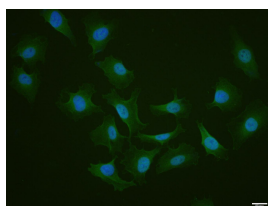
25 µg total protein per lane of various lysates (see on figure) probed with GLUT12 polyclonal antibody, unconjugated (bs-2540R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



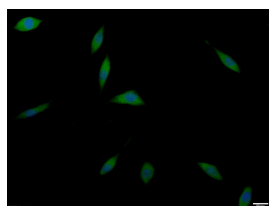
Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLUT12) Polyclonal Antibody, Unconjugated (bs-2540R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



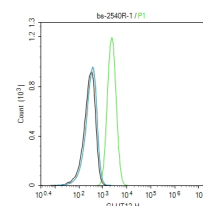
Paraformaldehyde-fixed, paraffin embedded (rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLUT12) Polyclonal Antibody, Unconjugated (bs-2540R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



A-549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GLUT12) polyclonal Antibody, Unconjugated (bs-2540R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at



SHSY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GLUT12) polyclonal Antibody, Unconjugated (bs-2540R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at



The MCF-7(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-GLUT12 antibody (bs-2540R): 1 µg/10⁶ cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF647 (bs-40295G-BF647): 1 µg/test. Isotype Control (orange): Rabbit IgG

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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(bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=11.062]** Xiong Ying. et al. SLC2A12 of SLC2 Gene Family in Bird Provides Functional Compensation for the Loss of SLC2A4 Gene in Other Vertebrates. Mol Biol Evol. 2020 Nov;; WB,IHC ;Sparrow. 33316072
- **[IF=4.556]** Yoichi Chiba. et al. Glucose, Fructose, and Urate Transporters in the Choroid Plexus Epithelium. Int J Mol Sci. 2020 Jan;21(19):7230 IHC ;Human. 33008107
- **[IF=4.586]** Gil-Iturbe E et al. GLUT12 Expression in Brain of Mouse Models of Alzheimer's Disease. Mol Neurobiol. 2019 Aug 31. WB ;Mouse. 31473905
- **[IF=4.17]** Pujol-Gimenez, Jonai, et al. "Expression of the Glucose Transporter GLUT12 in Alzheimers Disease Patients." Journal of Alzheimers Disease (2014). WB ;Human&Rat. 24820014
- **[IF=3.7]** Mingmei Li. et al. Hypoxia promotes the growth and metastasis of ovarian cancer cells by suppressing ferroptosis via upregulating SLC2A12. EXP CELL RES. 2023 Nov;;113851 IHC ;Human. 37940066